TITLE: Arthropodicidal and fungicidal cyclic amides

[triazolones] and their preparation, use, and

compositions

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SOURCE: PCT Int. Appl., 232 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2 PATENT INFORMATION:

PATENT NO.						APPLICATION NO.						DATE						
	9823 W:	155					1998	0604		WO 1	996-	US18	916		1	9961	126	<
				CH.	DE.	DK.	ES.	FI,	FR.	GB.	GR.	IE.	IT.	LU.	MC.	NL.	PT.	. SE
ZA	9709							0505										
			A 20050311			IN 1997-CA2193					19971120 <							
							WO 1997-US21944					19971125 <						
	W:	AL.	AM.	AU.	AZ.	BA.	BB.	BG,	BR.	BY.	CA.	CN.	CU.	CZ.	EE.	GE,	HU.	
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AU	9854	633			A		1998	0622		AU 1	998-	5463	3		1	9971	125	<
EP	9443	14			A1		1999	0929		EP 1	997-	9485	97		1	9971	125	<
	R:	CH.	DE.	DK.	ES.	FR.	GB,	IT,	LI.	NL.	ΙE							
BR	9713				A			0418				1341	5		1	9971	125	<
HU	2000						2000	0828		HU 2	000-	1540			1	9971	125	<
JP	2001	5069	84		T		2001	0529		JP 1	998-	5248	89		1	9971	125	<
	9904				A		2000	0131		MX 1	999-	4789			1	9990	524	<
KR	2000	0572	54		A		2000	0915		KR 1	999-	7046	39		1	9990	526	<
ORITY APPLN. INFO.:								WO 1	996-	US18	916		A 1	9961	126	<		
										US 1	996-	3361	4P		P 1	9961	219	<
										US 1	997-	4884	4P		P 1	9970	606	<
												US21				9971		

OTHER SOURCE(S): MARPAT 129:54375

ED Entered STN: 24 Jun 1998

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Title compds. I and their N-oxides and agriculturally suitable salts are AB disclosed [wherein E = (un)substituted 1,2-phenylene, naphthalene or heterocyclyl; A = O, S, N, NR3 or CR4; G = C or N; when G is C, then A is O, S or NR3 and the floating double bond is attached to G; and when G is N, than A is N or CR4 and the floating double bond is attached to A; W = O, S, NH, N(C1-C6 alkyl) or NO(C1-C6 alkyl); X = H, OR1, SOMR1, halo, C1-C6 alkyl, C1-C6 haloalkyl, C3-C6 cycloalkyl, cyano, NH2, NHR1, N(C1-C6 alkyl)R1, NH(C1-C6 alkoxy) or N(C1-C6 alkoxy)R1; R2 = H, C1-C6 alkyl, C1-C6 haloalkyl, C2-C6 haloalkyl, C2-C6 alkenyl, C2-C6 haloalkenyl, C2-C6 alkynyl, C2-C6 haloalkynyl, C3-C6 cycloalkyl, C2-C4 alkylcarbonyl, C2-C6 alkoxycarbonyl, hydroxy, C1-C2 alkoxy, or acetyloxy; R1= (halo)alkyl, (halo)alkenyl, etc.; R3= H, (halo)alkyl, etc.; Y = 0, CO, SO, etc.; Z = (un)substituted alkyl, alkenyl or alkynyl, R4 = H, halo, alkyl, etc.; m = 0, 1 or 2]. Claims cover methods of arthropod and fungal control, novel compds., arthropodicidal and fungicidal compns., and novel intermediates. Approx. 1000 invention compds. were prepared For instance, 5-chloro-2,4-dihydro-4-(2-methoxyphenyl)-2-methyl-3H-1,2,4triazol-3-one (preparation given) underwent a sequence of cleavage of the Me ether with BBr3, methoxylation of the chloride with NaOMe, and etherification of the phenolic hydroxy group with 5-chloro-3-[3,5bis(trifluoromethyl)phenyl]- 1,2,4-thiadiazole, to give title compound II. Selected I were active in screens against Erysiphe graminis, Pyricularia oryzae, Spodoptera frugiperda, Tetranychus urticae, and a variety of other

standard pests. IC ICM A01N043-653

IT

ICS C07D241-08; C07D249-08; C07D249-12; C07D275-02; C07D285-08; C07D417-04

CC 28-10 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-:	reference(s): !	5			
186979-56-6P	186979-57-7P		186979-58-8P	186979-59-9P	186979-60-2P
186979-61-3P	186979-62-4P		186979-63-5P	186979-64-6P	186979-65-7P
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186982-00-3P	186982-01-4P	186982-02-5P	186982-03-6P	186982-04-7P
RL: AGR (Agric	ultural use);	BAC (Biological	activity or ef	fector,

except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation as arthropodicide and fungicide)

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RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation as arthropodicide and fungicide) 186979-75-9 RCAPUS

CN 3H-1,2,4-Triazol-3-one, 4-[2-[[2-[3,5-bis(trifluoromethyl)phenyl]-4-pyrimidinyl]oxy]phenyl]-2,4-dihydro-5-methoxy-2-methyl- (CA INDEX NAME)